

# MasterTile FLX 422

**C2TE S1 class adhesive to install even large format floors and cladding. It can be used both indoors and outdoors up to a thickness of 10 mm.**

## MATERIAL DESCRIPTION

MasterTile FLX 422 is a pre-mixed C2TE S1 class (cementitious, improved, slip-resistant, extended open time, deformable) adhesive. It is white or grey, frost resistant, and specific for even large size absorbent or non-absorbent cladding. It can be used both indoors and outdoors. Maximum application thickness 10 mm.



## MAIN FIELDS OF APPLICATION

MasterTile FLX 422 is designed and formulated to install single- and double-fired tile, terracotta, clinker, porcelain, stone, etc. cladding on walls and floors.

MasterTile FLX 422 can be applied directly to existing and heated floors and can also be used to install large format tiles.

It ensures excellent adhesion to all substrates usually found in construction, including:

- Plaster and cement mortars
- Drywall
- Cement screeds even if self-levelling
- Old floors
- Heated floors

It allows new tile to be installed on existing tile floors. It is a highly workable and thixotropic product that can be applied up to a maximum thickness of 10 mm.

## FEATURES AND BENEFITS

MasterTile FLX 422 is a pre-mixed powder adhesive. It is white or grey, high-performing, deformable, frost resistant, thixotropic, highly workable, and ensures excellent adhesion to most cladding and substrates usually found in construction. It has low shrinkage, which ensures high adherence over time and can take foot traffic 24 hours after installation.

MasterTile FLX 422 complies with the strict emission requirement for EC 1<sup>PLUS</sup> – EMICODE class (regulated by GEV GMBH).

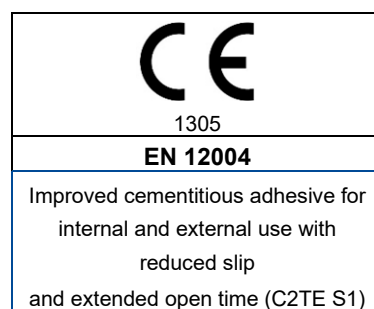


MasterTile FLX 422 meets the performance requirements of European Standard **EN 12004**, for the laying of coatings on walls and floors and is graded **C2TE S1** where:

- C stands for cement
- 2 indicates improved adhesion
- T indicates no vertical slip
- E indicates extended open time
- S1 indicates deformable.



In compliance with the European Regulation (EU No 305/2011 and EU No. 574/2014) the product is provided with the CE marking according to UNI EN 12004 and the relative DoP (Declaration of Performance).



## CONSUMPTION

The average consumption (varies according to the surface flatness and to the format of tile used) is 2.5÷4.5kg/m².

## PACKAGING

25 kg paper bag.

## STORAGE

Store the product in a dry and sheltered place at a temperature anywhere between 5 and +35°C.

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Technical Information		
Colour	White or grey	
Granulometry	≤ 0,6 mm	
Density of the hardened product	1,46 kg/lt	
Mix water	28%	
Mixture's rest period	10 minutes	
Mixture's useful life	3 hours	
Open time	30 minutes	
Maximum thickness achievable	10 mm	
Workability	24 hours	
Grouting wall joints	6 hours	
Grouting floor joints	24/48 hours	
Return to service	14 days	
Operating temperature	-30 ÷ +90°C	
Temperature of application	From 5°C to 35°C	
Packaging	25 kg.bag	
Consumption	2.5-4.5 kg/mq	
Essential characteristic with a dosage of water of 28%		Performances
Initial adhesion at 28 days, EN 1348	EN 1348	≥ 1,5 N/mm <sup>2</sup>
Adhesion after the action of the heat, EN 1348	EN 1348	≥ 1,5 N/mm <sup>2</sup>
30 minutes adhesion	EN 1348	≥ 0,5 N/mm <sup>2</sup>
Adhesion after immersion in water, EN 1348	EN 1348	≥ 1,0 N/mm <sup>2</sup>
Adhesion after freeze/thaw cycles, EN 1348		≥ 1,0 N/mm <sup>2</sup>
Moisture resistance		Excellent
Resistance to ageing		Excellent
Resistance to solvents and oils		Excellent
Flexibility		Good
Fire reaction		Class F
Elasticity (transversal deformation),	EN 12002	≥ 2,5 mm e <5 mm

## APPLICATION SHEET

### PREPARING THE SUBSTRATE

Make sure the surface on which MasterTile FLX 422 will be applied is compact, clean, and flat. Substrates must be cured, dry, and not subject to shrinkage after tile installation. If the surfaces are excessively hot, it is a good idea to spray them with water before applying MasterTile FLX 422. Surfaces in gypsum or anhydrite must be treated with MasterEmaco P110 6 hours before applying MasterTile FLX 422.

MasterEmaco P110 can also be used to preventively treat highly absorbent substrates.

### MIXING

Do not begin mixing MasterTile FLX 422 if the ambient temperature or the temperature of the substrate is less than +5°C or higher than +35°C. MasterTile FLX 422 must

be mixed with approximately 7 litres of water (28%) for every 25 kg until the mixture is even, lump-free, and an easily workable consistency.

### APPLICATION

MasterTile FLX 422 must be applied at a maximum thickness of 10 mm using a notched trowel that has an edge with notches of the appropriate length and a flat edge.

Apply the appropriate thickness of MasterTile FLX 422, first using the flat side of the trowel and making sure to press the product vigorously onto the substrate. The product must then be immediately "combed" using the notched side of the trowel. This operations evens the surfaces and incorporates any dust residue that could make it difficult for MasterTile FLX 422 to adhere to the substrate.

Install the tiles, regularly checking to make sure a surface

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skin has not formed on the surface of MasterTile FLX 422. If it has, add a bit of fresh MasterTile FLX 422 to the problematic area.

Next position the tiles, hitting them carefully with a rubber hammer and spacing them out using appropriate spacers, depending on the desired width of the grout.

For special use, e.g. in heavily frequented venues, outdoors, for large formats, and for materials to be polished on site, the double-buttering method (both on the substrate and on the back of the tile) must be used in order to ensure ideal adhesion and backbuttering of the tile.

## WARNINGS

- Do not apply in temperatures less than + 5°C or higher than + 35°C.
- Do not apply to frozen substrates or substrates that are subject to freezing within less than 24 hours.
- Do not apply to uneven or friable substrates or where there are scraps of the substrate itself.
- Do not install in strong winds or under excessive sun exposure.
- Do not apply to metal, vinyl, linoleum, wood, rubber, or bituminous sheath surfaces.

## SAFETY INSTRUCTION

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

## OTHER SERVICES

For price analysis, specifications, supplementary brochures, references, reports and technical assistance, visit the website [www.master-builders-solutions.com/it-it](http://www.master-builders-solutions.com/it-it) or contact [infomac@mbcc-group.com](mailto:infomac@mbcc-group.com).

Scan the QR code to visit the product page and download the latest version of this datasheet.



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